CLAIMS:

1. A method for the preparation of compound of formula II

. 5

25

wherein R₁ and R₂ are independently selected from the group H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted or unsubstituted or unsubstituted or unsubstituted or unsubstituted or unsubstituted alkenyl, substituted or unsubstituted substituted aryl or arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic;

R₃ and R₄ are independently selected from the group H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted arylated or unsubstituted arylated or unsubstituted arylated arylated or unsubstituted arylated arylate

Rs is selected from the group consisting of H, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted alkylsilyl, substituted or unsubstituted substituted or unsubstituted or unsubstituted or unsubstituted substituted or unsubstituted substituted or unsubstituted substituted or unsubstituted aryl or substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic, or

forms part of an amino acid, or

is a nucleoside, an oligomer, a polymer, a dendrimer, a substrate or a surface,

the method comprising reacting a compound of formula !

PCT/AU2003/001053

15

30

$$R_1$$
 R_2
 R_3
 R_4

wherein R₁ and R₂ are independently H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or 5 unsubstituted oxoalkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted aryl or substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic;

R₃ and R₄ are independently H, halogen, substituted or unsubstituted 10 alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted aryl or arylalkyl; and R is hydroxy, halogen; and

"-----" represents a single bond, in which case R is absent, or a double bond, provided that at least one of R₁, R₂, R₃ and R₄ is halogen,

with a compound of formula R₅NH₂

wherein R₅ is selected from the group consisting of H, substituted or unsubstituted alkyl, hydroxy, substituted or unsubstituted alkoxy, substituted or unsubstituted oxoalkyl, substituted or unsubstituted alkenyl, substituted or or substituted or unsubstituted arylalkyl, optionally unsubstituted aryl interrupted by one or more hetero atoms, straight chain or branched chain, 20 hydrophilic or fluorophilic, or

forms part of an amino acid, or

is a nucleoside, an oligomer, a polymer, a dendrimer, a substrate or a surface.

- 25 2. A method according to claim 1, wherein, at least one of R1, R2, R3 and R4 is halogen.
 - 3. A method according to claim 1 or 2, wherein R_5 is a residue of a naturally occurring compound.

A method according to claim 1 or claim 2, wherein R₅ is a biomolecule.

A method according to claim 4, where R₅ is a coenzyme or cofactor.

- 6. A method according to any one of claims 1 to 5, wherein R_5 is an oligomer or a polymer
- 7. A method according to claim 6, wherein the oligomer or polymer is a biomolecule.
 - 8. A method according to claim 7, wherein R_5 is a peptide or polyamide.
- 9. A method according to any one of claims 1 to 6, wherein R_{δ} is a protein residue.
 - 10. A method according to claim 9, where R_{5} is an enzyme or a receptor.
- 11. A method according to any one of claims 1 to 7, wherein R₅ is an oligomer
 or polymer comprising nucleic acid residues.
 - 12.A method according to claim 11, wherein $R_{\mbox{\scriptsize 5}}$ is a polynucleotide.
 - 13.A method according to claim 12, wherein the polynucleotide is DNA or RNA.
 - 14.A method according to claim 1, wherein R_{δ} is a surface or a substrate with which the nitrogen atom of compound II is associated.
- 15.A method according to claim 14, wherein the association is chemicalbonding.
 - 16.A method according to claim 15, wherein the association is covalent bonding.
- 30 17.A method according to any one of claim 1 or claim 14, wherein the surface or substrate may be biological or synthetic.
 - 18. A compound of formula II:

20

wherein R_1 and R_2 are independently H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted alkenyl, substituted or

unsubstituted aryl or substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic;

R₃ and R₄ are independently H, halogen, substituted or unsubstituted 5 alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted arylalkyl;

R_s is selected from the group consisting of H, hydroxy, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted alkenyl, substituted or unsubstituted alkenyl, substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic, or

forms part of an amino acid, or

is a nucleoside, an oligomer, a polymer, a dendrimer, a substrate or a 15 surface.

- 19. A compound according to claim 18, wherein R₅ is a D- or L- nucleoside.
- 20. A compound according to claim 18, wherein R_{5} is an oligomer or a polymer.
- 21. A compound according to claim 18, wherein R₅ is dendrimer.
- 22, A compound according to claim 18, wherein R5 is a substrate.
- 25 23. A compound, according to claim 18, wherein R₅ is a surface.
 - 24.A compound according to claim 18, wherein at least one of R_1 , R_2 , R_3 and R_4 is halogen.
- 30 25.A method for preparing a compound of formula III, the method comprising dehydration a compound of formula II according to claim 18 or 19;

30

wherein R₁ and R₂ are independently selected from H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted oxoalkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted arylar or substituted or unsubstituted arylar optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic;

R₃ and R₄ are independently selected from H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted aryl or arylalkyl; and R₅ is selected from the group consisting of H, substituted or unsubstituted alkyl, hydroxy, substituted or unsubstituted alkoxy, substituted or unsubstituted oxoalkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted aryl or substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic, or

forms part of an amino acid, or

is a nucleoside, an oligomer, a polymer, a dendrimer, a substrate or a surface.

- 20 25.A method according to claim 25, wherein at least one of R₁, R₂, R₃ and R₄ in formula III is halogen.
 - 26.A method according to claim 24 or 25, wherein the dehydration is carried out in the presence of a dehydrating agent.
 - 27.A method according to claim 26, wherein the dehydrating agent is selected from the group consisting of phosphorus pentoxide, silica gel, molecular sieves, alumina, acidic resins and polymers, phosphorus oxychloride, acetic anhydride, N,N'-dicyclohexylcarbodiimide (DCC), trifluoroacetic acid, sulfuric acid, trifluoroacetic anhydride, and trifluorosulfonic acid anhydride (triflic anhydride).
 - 28.A compound of formula !!!:

WO 2004/016588 PCT/AU2003/001053

58

$$R_1$$
 R_2
 R_5
 R_4

wherein R₁ and R₂ are independently selected from H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted oxoalkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic;

R₃ and R₄ are independently selected from H, halogen, substituted or 10 unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted aryl or arylalkyl; and

R₅ is selected from the group consisting of H, substituted or unsubstituted alkyl, hydroxy, substituted or unsubstituted alkoxy, substituted or unsubstituted alkenyl, substituted or unsubstituted alkenyl, substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic, or

forms part of an amino acid, or

is a nucleoside, an oligomer, a polymer, a dendrimer, a substrate or a 20 surface.

- 29.A compound according to claim 28, wherein at least one of R_1 , R_2 , R_3 and R_4 is halogen.
- 25 30.A compound according to claim 28 or 29, selected from the group consisting of:

31. A method for the preparation of a compound of formula IV

$$R_1$$
 R_2
 R_3
 R_4
 R_5

5

wherein R_1 and R_2 are independently selected from H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted oxoalkyl, substituted or unsubstituted alkenyl, 10 substituted or unsubstituted aryl or substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic;

R₃ and R₄ are independently selected from H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted aryl or arylalkyl; and

R₅ is selected from the group consisting of H, substituted or unsubstituted alkyl, hydroxy, substituted or unsubstituted alkoxy, substituted or unsubstituted oxoalkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic, or

forms part of an amino acid, or

is a nucleoside, an oligomer, a polymer, a dendrimer, a substrate or a surface.

X is O or NR₈, where R₆ be independently selected from R₁,

the method comprising reacting a compound of formula I as defined in claim 1, wherein R₃ is a hydrogen and "_____" represents a double bond.

- 32. A method according to claim 32, wherein at least one of R_1 , R_2 , R_3 and R_4 is halogen.
- 20 33. A method according to claim 31 or 32, wherein R₆ is H.

34. A compound of formula IV

$$R_1$$
 R_2
 R_3
 R_4
 R_5

25

10

wherein R_1 and R_2 are independently selected from H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted oxoalkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted arylarylaryl,

optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic;

R₃ and R₄ are independently selected from H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted aryl or arylalkyl;

R₅ is selected from the group consisting of H, substituted or unsubstituted alkyl, hydroxy, substituted or unsubstituted alkoxy, substituted or unsubstituted oxoalkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted aryl or substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic, or

forms part of an amino acid, or

is a nucleoside, an oligomer, a polymer, a dendrimer, a substrate or a surface; and

- 15 X is O or NR_6 , where R_6 be independently selected from R_1 .
 - 35. A compound according to claim 30, wherein at least one of R_1 , R_2 , R_3 and R_4 is halogen.
- 20 36. A compound according to claim 34 or 35, wherein X is NR₆.
 - 37.A compound according to claim 36, wherein R₆ is an optionally substituted arylalkyl.
- 25 38.A compound according to claim 34 selected from the group consisting of:

39. A compound of formula V:

$$R_1$$
 R_2
 R_3
 R_4

5

wherein R₁ and R₂ are independently selected from H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted oxoalkyl, substituted or unsubstituted alkenyl, 10 substituted or unsubstituted aryl or substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic;

R₃ is selected from H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted alkoxy, substituted or unsubstituted aryl or arylalkyl;

X is O or NR₆, where R₆ is as defined above; and

R₅ is selected from the group consisting of H, substituted or unsubstituted alkyl, hydroxy, substituted or unsubstituted alkoxy, substituted or unsubstituted oxoalkyl, substituted or unsubstituted alkenyl, substituted or

unsubstituted aryl or substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic, or

forms part of an amino acid, or

is a nucleoside, an oligomer, a polymer, a dendrimer, a substrate or a surface.

40. A compound of formula (VI):

V

wherein R₁ and R₂ are independently selected from H, halogen, substituted or unsubstituted alkoy, substituted or unsubstituted alkoy, substituted or unsubstituted oxoalkyl, substituted or unsubstituted alkenyl, substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic;

R₃ and R₄ are independently selected from H, halogen, substituted or unsubstituted alkyl, substituted or unsubstituted aryl or arylalkyl;

R₅ is selected from the group consisting of H, substituted or unsubstituted alkyl, hydroxy, substituted or unsubstituted alkoxy, substituted or unsubstituted alkenyl, substituted or unsubstituted alkenyl, substituted or unsubstituted aryl or substituted or unsubstituted arylalkyl, optionally interrupted by one or more hetero atoms, straight chain or branched chain, hydrophilic or fluorophilic, or

forms part of an amino acid, or

is a nucleoside, an oligomer, a polymer, a dendrimer, a substrate or a surface; and

Z is selected from the group R_2 , halogen, $OC(O)R_2$, =O, amine azide, thiol, R_2 , mercaptoaryl, arylalkoxy, mercaptoarylalkyl, $SC(O)R_2$, $OS(O)_2R_2$. NHC(O) R_2 , =NR2 or NHR2.

- 41.An oligomer or a polymer formed by oligomerising or polymerising a compound of formula II VI directly or with one or more other monomers.
- 42. An oligomer or a polymer according to claim 41, wherein the one or more other monomer is selected from the group acrylate ester such as substituted or unsubstituted alkyl, hydroxyalkyl, aminoalkyl, or substituted substituted or unsubstituted aryl acrylates or methacrylates, crotonates, substituted or unsubstituted acrylonitriles, vinyl alcohols or acetates, styrene and siloxanes.

- 43.A surface coating or polymer having incorporated therein a compound according to any one of the preceding claims.
- 44. Use of a compound according to any one of claims as antimicrobial and/or antifouling agent.
 - 45. Use of a compound according to any one of claims 18, 28, 34, 38, 39 or 40 in a medical, scientific and/or biological application(s).
- 20 46. A composition comprising at least one compound according to any one of claims 18, 28, 34, 38, 39 or 40 and a carrier or diluent.
 - 47. A composition according to claim 46, where the carrier or diluent is a liquid
- 48. A composition according to claim 46, where the composition is in the form of a solution or suspension of at least one of the compounds.
 - 49. A composition according to claim 47 or 48, wherein the liquid is an aqueous solvent or a non-aqueous solvent.

- 50.A composition of claim 46, wherein the solvent is a one or more organic solvent(s).
- 51. A composition according to claim 47, wherein the liquid is an ionic liquid.

- 52.A composition according to any one of claims 46 to 51, in an aerosol or powder formulation.
- 53.A composition according to any one of claims 46 to 52, including organic orinorganic polymeric substances.
 - 54.A composition according to claim 53, wherein the compound is admixed with a polymer or bound to, or adsorbed on to, a polymer.
- 10 55.A composition according to any one of claims 46 to 54 formulated as a disinfectant or cleaning formulation.
 - 56.A composition according to any one of claim 46 to 55 in the form of a powder, solutions, suspension, dispersion, emulsion or gel.
 - 57.A composition according to any one of claims 46 to 54 in the form of a pharmaceutical composition comprising a pharmaceutically acceptable carrier, diluent and/or excipient.
- 20 58.A composition according to claim 57, wherein the composition is a form suitable for parenteral or non-parenteral administration.
- 59. A composition according to claim 58 formulated for topical, intradermal, intramuscular, intraperitoneal, intravenous, subcutaneous, intranasal, epidural, ophthalmic, or oral administration.
 - 60.A composition according to claim 57 formulated for administration by infusion or bolus injection, absorption through epithelial or mucocutaneous linings and may be administered together with other biologically active agents.
 - 61.A composition according to claim 57 formulated for use in an inhaler or nebulizer.

- 62.A method of treating an infection in a human or animal subject the method comprising administration to the subject of an effective amount a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40.
- 5 63.A method according to claim 62 wherein treatment is therapeutic or prophylactic.
- 64.A method or treating an infection or condition in a subject that is characterised by biofilm formation comprising administering a compound according to any one of claims 18, 28, 34, 38, 39 or 40.
 - 65. A method according to claim 64, wherein the condition is cystic fibrosis.
- 66.A method according to claim 64, wherein the condition is dental caries, periodontitis, otitis media, muscular skeletal infections, necrotising fascitis, biliary tract infection, osteomyelitis, bacterial prostatitis, native valve endocarditis, cystic fibrosis pneumonia, meloidosis.
- 67. A method according to claim 64, wherein the condition is nosocomial infection.
 - 68.A method according to claim 67, wherein the infection is ICU pneumonia or an infection associated with sutures, exit sites, arteriovenous sites, scleral buckles, contact lenses, urinary catheter cystitis, peritoneal dialysis (CAPD) peritonitis, IUDs, endotracheal tubes, Hickman catheters, central venous catheters, mechanical heart valves, vascular grafts, biliary stent blockage, and orthopaedic devices, penile prostheses.
- 69. A method according to claim 64, wherein the infection is selected from the group a skin infection, burn infection and wound infection.
 - 70.A method according to any one to claims 64 to 69, wherein the is an immunocompromised individuals

- 71.A method for treating or preventing biofilm formation on a surface, the method comprising contacting the surface with a compound according to any one of claims 18, 28, 34, 38, 39 or 40.
- 5 72.A method according to claim 71, wherein the surface is a non-biological surface.
 - 73. A method according to claim 71, wherein the surface is a natural surface.
- 10 74.A method according to claim 71, wherein the surface is a surface of a plant, seed, wood, fibre or hair.
 - 75. A method according to claim 71, wherein the surface is a biològical surface.
- 15 76.A method according to claim 75, wherein the surface is a surface of a tissue, membrane or skin.
 - 77. A method according to claim 71, wherein the surface is a hard surface.
- 78.A method according to claim 77, wherein the surface is formed of a metal, an organic and inorganic polymer, a natural or synthetic elastomer, board, glass, wood, paper, concrete, rock, marble, gypsum and ceramic materials which optionally are coated.
- 25 79.A method according to claim 71, wherein the surface is a coating.
 - 80.A method according to claim 79, where in the coating is an enamel, vamish or paint.
- 30 81.A method according to claim 71, wherein the surface is a soft surface.
 - 82.A method according to claim 81, wherein the surface is a surface of a fibre.
- 83.A method according to claim 82, wherein the fibre is in the form of a yarn, a textile, a vegetable fibre, rock wool.

WO 2004/016588 PCT/AU2003/001053

- 84. A method according to claim 71, wherein the surface is a porous surfaces.
- 85. A method according to claim 71, wherein the surface is a surface of process equipment or components of cooling equipment.

5

86.A method according to claim 85, wherein the process equipment is for a cooling tower, a water treatment plant, a dairy processing plant, food processing plant, a chemical process plant or a pharmaceutical process plant or a component thereof.

10

- 87. A method according to claim 86, wherein the surface is that of a filter.
- 88. A method according to claim 87, wherein the filter is a membrane filter.
- 15 89.A method according to claim 71, wherein the surface is a surface of toilet bowls, bathtubs, drains, highchairs, counter tops, vegetables, meat processing rooms, butcher shops, food preparation areas, air ducts, air-conditioners, carpets, paper or woven product treatment, napples(diapers), personal hygiene products, and washing machines.

20

- 90. A method according to claim 71, wherein the surface is an industrial surface.
- 91.A method according to claim 71, wherein the surface is a medical surface.

25

- 92.A method according to claim 71, wherein the surface is a hospital, veterinary hospital surface, mortuary surface and funeral parlour surface.
- 93. A dentifrice, a mouthwash or a composition for the treatment of dental caries comprising a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40.
 - 94. A composition for treatment of acne comprising a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40.

35

95. A composition for cleaning and disinfecting contact lenses comprising a

30

compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40.

- 96. A medical device incorporating a compound of any one of claims comprising a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40 on at least one surface thereof.
- 97. An implant device having at least one surface associated with compound according to any one of claims comprising a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40.
- 98. An implant device according to claim 97, wherein the device is an artificial heart valve or hip joint, an indwelling catheter, pacemaker, surgical pin and the like.
- 15 99. An antifouling composition comprising an effective amount of a compound of any one of claims comprising a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40.
- 100. An antifouling coating composition, the composition comprising an
 effective amount of a compound according to any one of claims comprising a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40.
- 101. An shellfish or aquaculture apparatus having at least one surface associated with a compound of any one of claims comprising a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40.
 - 102. A biofilm removing or inhibiting composition comprising an amount of a of a compound according to any one of comprising a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40 and a vehicle or carrier, wherein the amount of the mixture is effective to remove or disrupt a bacterial biofilm or inhibit normal biofilm formation.
- 103. A composition according to claim 102, additionally comprising a surfactant selected from group consisting of anionic, nonionic, amphoteric,
 35 biological surfactants and mixtures thereof.

35

- 104. A composition of claim 103 further comprising a compound selected from the group consisting of biocides, fungicides, antibiotics, and mixtures thereof.
- 5 105. A method of removing biofilm from a surface comprising the step of administering a cleaning-effective amount of a compound of claim comprising a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40 to a biofilm-containing surface.
- 10 106. A method of preventing biofilm formation on a surface comprising the step of administering an effective amount of the compound according any one of claims comprising a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40 to a surface, wherein the amount is effective to prevent biofilm formation.

107. A method of claim 106, wherein the surface is a hard, rigid surface.

- 108. A method of claim106, wherein the surface is selected from the group consisting of a drainpipe, glaze ceramic, porcelain, glass, metal, wood,
 chrome, plastic, vinyl, and formica.
 - 109. A method of claim 106, wherein the surface is a soft, flexible surface.
- 110. A method of claim106, wherein the surface is selected from the group consisting of shower curtains or liners, upholstery, laundry, and carpeting.
 - 111. A method of claim 106, wherein the biofilm is produced by a bacteria of the class Pseudomonas.
- 30 112. The method of claim106, wherein the bacteria is of the species Pseudomonas aeuroginosa.
 - 113. A method of claim106, wherein the biofilm is produced by an organism selected from the group consisting of bacteria, algae, fungi and protozoa.
 - 114. A dentifrice comprising an effective amount of a compound of any one of

claims comprising a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40, wherein the amount is effective to either prevent or remove biofilm formation.

- 5 115. A mouthwash comprising an effective amount of a compound of any one of claims comprising a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40, wherein the amount is effective to either prevent or remove biofilm formation.
- 10 116. An optical lens, wherein at least a part of a surface of the lens is associated with a compound according to any one of claims comprising a compound in accordance with any one of claims 18, 28, 34, 38, 39 or 40.
- 117. An optical lens according to claim 116, wherein the lens in a contact15 lens.